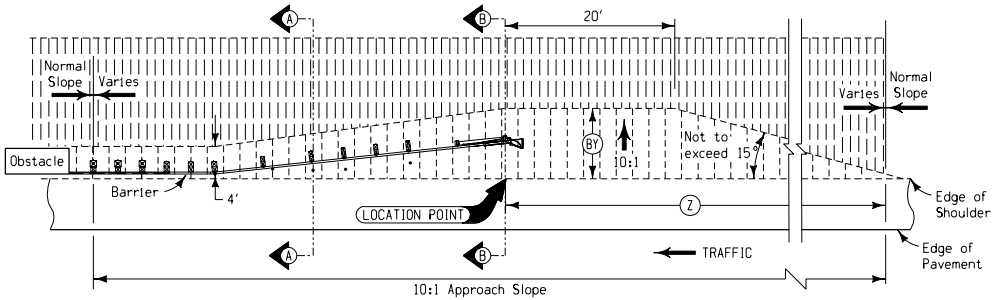
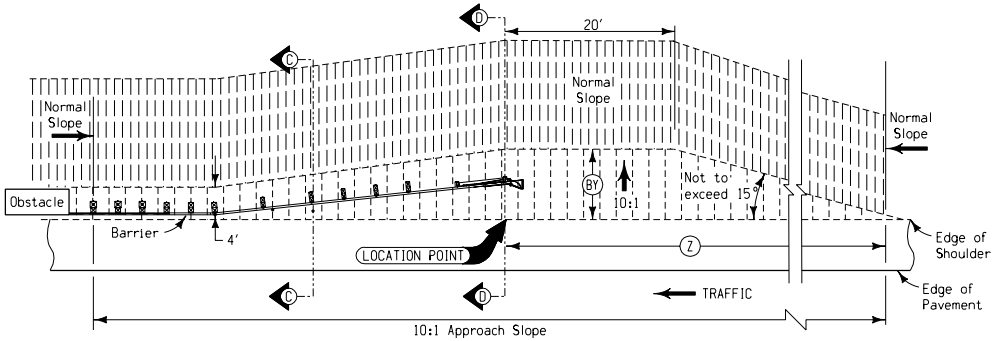


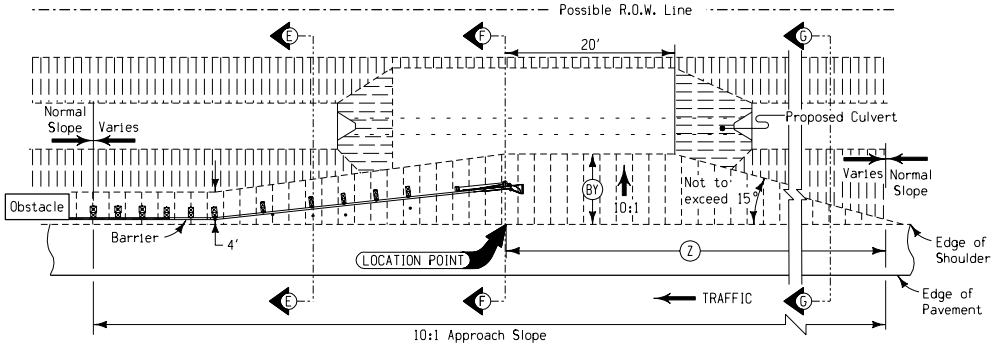
TYPE 1 - TYPICAL PLAN

Guardrail may or may not attach to face of obstacle



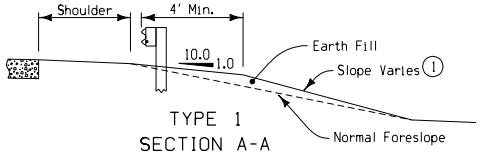
TYPE 2 - TYPICAL PLAN

Guardrail may or may not attach to face of obstacle

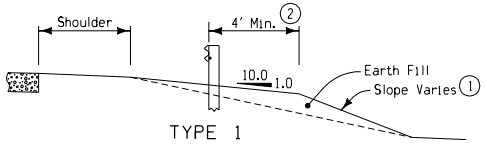


TYPE 3 - TYPICAL PLAN

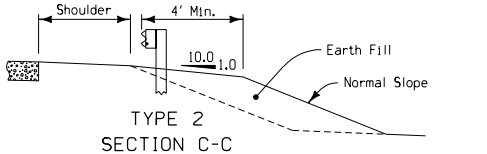
Guardrail may or may not attach to face of obstacle



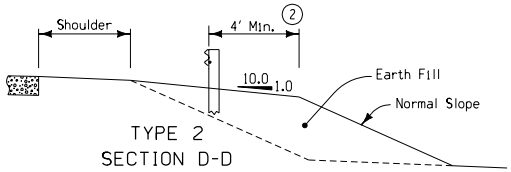
TYPE 1
SECTION A-A



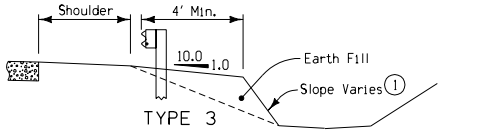
TYPE 1
SECTION B-B



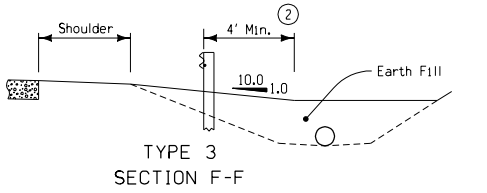
TYPE 2
SECTION C-C



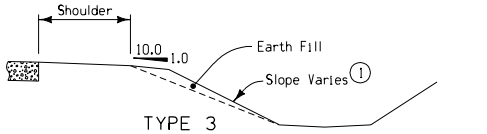
TYPE 2
SECTION D-D



TYPE 3
SECTION E-E



TYPE 3
SECTION F-F



TYPE 3
SECTION G-G

GENERAL NOTES:

This sheet illustrates the grading requirements for steel beam guardrail installations utilizing an RE–76 terminal. Refer to detail plans and tabulations for specific requirements at each guardrail installation site.

A 10:1 slope is required for the entire length of guard–rail plus the designated "Z" distance. The "BY" distance varies as detailed.

Materials and methods of construction shall be in ac–cordance with current Standard and Supplemental Spec–ifications.

Construction of earth fill shall be in conformance with re–quirements for construction of embankments.

Vegetative material on the foreslopes shall be removed before placing fill.

(1) Slope to be as flat as conditions allow. When possible, this slope should be the same as the normal foreslope. In no case shall it be steeper than 2:1.

(2) From the face of the toe of the 10:1 slope.

(BY) Distance between the edge of shoulder and face of the last guardrail post plus 4 feet.

(Z) Distance along the edge of the shoulder from the last guardrail post to the end of the 10:1 approach slope.

(BY) feet	(Z) feet
8	50
9	54
10	57
11	61
12	65
13	69
14	72
15	76
16	80
17	83
18	87
19	91
20	95

Iowa Department of Transportation
Project Development Division

STANDARD ROAD PLAN **RL-14**

REVISION: Show new RE-76 Beam Guardrail Terminal and corresponding grading requirements.

REVISION NO. 2

David R. Keith 09-14-98
APPROVED BY DESIGN METHODS ENGINEER

REVISION DATE 01-12-99

SPECIAL SHAPING AT SIDE BARRIER